	Application No.	Applicant(s)
	09/510,966	GAIKWARD ET AL.
Notice of Allowability	Examiner	Art Unit
	BINH K. TIEU	2643
The MAILING DATE of this communication apperall daims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Ref	ars on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	orrespondence address blication. If not included will be mailed in due course THIS
1. This communication is responsive to 6/22/05.		
2. A The allowed claim(s) is/are 2,6-8,10-12,15-17 and 19-21.		
3. A The drawings filed on 21 February 2000 are accepted by the	e Examiner.	
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of	been received. been received in Application No cuments have been received in this r	national stage application from the
noted below. Failure to timely comply will result in ABANDONMI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ENT of this application.	
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	red. Note the attached EXAMINER's reason(s) why the oath or declarat	S AMENDMENT or NOTICE OF ion is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.	
(a) ☐ including changes required by the Notice of Draftsperso	on's Patent Drawing Review (PTO-9	948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the Ot	ffice action of
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	34(c)) should be written on the drawing e header according to 37 CFR 1.121(d	gs in the front (not the back) of).
7. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT F	it of BIOLOGICAL MATERIAL m OR THE DEPOSIT OF BIOLOGICA	ust be submitted. Note the L MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08	6. ☐ Interview Summary (Paper No./Mail Date 3), 7. ☐ Examiner's Amendm	ent/Comment
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statemer 9. □ Other	nt of Reasons for Allowance

Art Unit: 2643

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 2, 6-8, 10-12, 15-17 and 19-21 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The reasons of allowance of above claims are as followings:

- A/. "...wherein at frequencies above M. sub.E2F, the power spectral density of the uplink signals are limited to one or more uplink frequency bands and the downlink signals are limited to one or more downlink frequency bands that are disjoint from the uplink frequency bands, and wherein the total bandwidth of the uplink frequency bands is proportional to the total bandwidth of the downlink frequency bands by the same positive scale factor.", as substantially described and connected to independent claim 2.
- B/. "...wherein at frequencies above M.sub.E2F, the transmitted downlink PSD is nonzero in one or more frequency bands that are disjoint from one or more frequency bands in which the transmitted uplink PSD is nonzero, and wherein the total bandwidth of the uplink frequency bands above the selected frequency is proportional to the total bandwidth of the downlink frequency bands above the selected frequency by the same positive scale factor.", as substantially described and connected to independent claims 6 and 15.
- C/. "... selecting a crossover frequency bin in response to the self-NEXT transfer function and the self-FEXT transfer function wherein SPSD signaling leads to a greater channel capacity than FDS signaling for bins lower in frequency than the crossover frequency bin and

Application/Control Number: 09/510,966

Art Unit: 2643

wherein FDS signaling leads to a greater channel capacity than SPSD signaling for bins greater

in frequency than the crossover frequency bin...", as substantially described and connected to

independent claims 10 and 19.

D/. "...at frequencies below a select frequency constraining the transmitted downlink

Page 3

PSD to be proportional to the transmitted uplink PSD by a positive scale factor, and at

frequencies above the selected frequency, constraining the transmitted downlink PSD to be in

frequency bands disjoint from the transmitted uplink PSD...", as substantially described and

connected to independent claims 11 and 20.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Binh K. Tieu whose telephone number is (571) 272-7510 and E-

mail address: BINH.TIEU@USPTO.GOV.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mr. Curtis Kuntz, can be reached on (571) 272-7499 and IF PAPER HAS BEEN

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Any response to this action should be mailed to:

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Washington, D.C. 20231

Or faxed to:

Art Unit: 2643

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BINH TIEU PRIMARY EXAMINER

Art Unit 2643

Date: August 05, 2005